RT1P234X SERIES

Transistor

UNIT: mm

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

DRAWING

DESCRIPTION

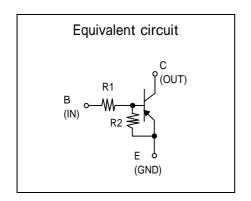
RT1P234X is a one chip transistor with built-in bias resistor, NPN type is RT1N234X.

FEATURE

•Built-in bias resistor (R1=2.2k ,R2=10k).

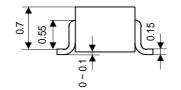
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit.



RT1P234U RT1P234C

OUTLINE

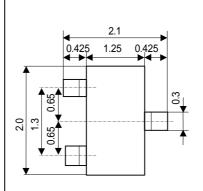


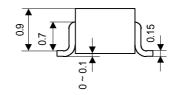
JEITA: -JEDEC: -

Terminal Connector

: Base : Emitter : Collector

RT1P234M

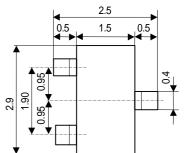


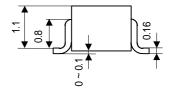


JEITA: SC-70 JEDEC: -

Terminal Connector

: Base : Emitter : Collector



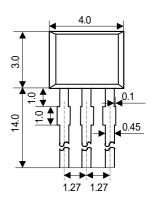


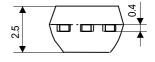
JEITA: SC-59 JEDEC: Similar to TO-236

Terminal Connector

: Base : Emitter : Collector

RT1P234S





JEITA: -JEDEC: -Terminal Connector

: Emitter : Collector : Base

RT1P234X SERIES

Transistor

Transistor With Resistor For Switching Application Silicon PNP Epitaxial Type

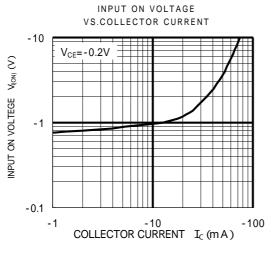
MAXIMUM RATING (Ta=25)

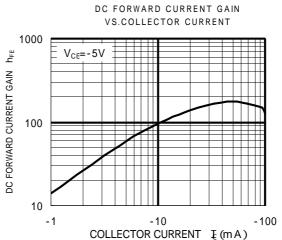
SYMBOL	PARAMETER	RATING				UNIT
		RT1P234U	RT1P234M	RT1P234C	RT1P234S	UNIT
V_{CBO}	Collector to Base voltage	-50				
V_{EBO}	Emitter to Base voltage	-6				
V_{CEO}	Collector to Emitter voltage	-50				
Ι _c	Collector current	-100				
I _{CM}	Peak Collector current	-200				
P_{c}	Collector dissipation(Ta=25)	150	20	00	450	mW
Tj	Junction temperature	+150	+150			
Tstg	Storage temperature	-55 ~ +150	-55 ~ + 150			

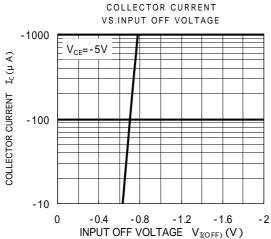
ELECTRICAL CHARACTERISTICS (Ta=25)

SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
			MIN	TYP	MAX	UNIT
$V_{(BR)CEO}$	C to E break down voltage	$I_{C}=-100 \mu A$, $R_{BE}=$	-50			V
I _{CBO}	Collector cut off current	V_{CB} =-50V , I $_{E}$ =0			-0.1	μΑ
h _{FE}	DC forward current gain	V_{CE} =-5V , I $_{C}$ =-10mA	33			-
$V_{CE(sat)}$	C to E saturation voltage	$I_C = -10 \text{mA}$, $I_B = -0.5 \text{mA}$		-0.1	-0.3	V
$V_{I(ON)}$	Input on voltage	V_{CE} =-0.2V , I_{C} =-5mA		-0.8	-1.4	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =-5V , I $_{C}$ =-100 μ A	-0.5	-0.7		V
R_1	Input resistance		1.5	2.2	2.9	k
R_2/R_1	Resistance ratio		3.8	4.7	5.6	
f _T	Gain band width product	V_{CE} =-6V , I _E =10mA		150		MHz

TYPICAL CHARACTERISTICS







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